



Bridge 76



Bridge 77

Benefits of Accelerated Bridge Construction:

- Reduced design and construction duration
- Reduced road user cost
- Safer for workers and traveling public
- Increased strength and quality of bridge components
- Eliminates need for temporary bridge construction
- Reduced impacts to:
 - Environmental Resources
 - Utilities
 - Right-of-Way



Bridge 77—wetland areas

Colchester

Interstate 89

Bridges 76 N&S and Bridges 77 N&S

Colchester IM 089-3(69)

Project Location: Town of Colchester in Chittenden County on I-89 between exit 16 and exit 17. Bridges 76 N&S are located over Bay Road (TH-1) at mile marker 95.3 and Bridges 77 N&S are located over Mallett's Creek at mile marker 96.6.

The Colchester Interstate 89 Bridges 76 (N&S) and Bridges 77 (N&S) project will replace the existing bridge decks, which are in fair to poor condition, with new precast deck panels. The substandard bridge and approach railing will also be replaced with railing meeting current crash standards. The existing bridges are 3-span continuous rolled beam bridges constructed in 1964. Bridges 76 N&S are 157-feet in length and Bridges 77 N&S are 185-feet in length. All four bridges have beams and substructures that are in satisfactory condition and decks that are in fair to poor condition.

VTrans evaluated alternatives for rehabilitation or replacement of the bridges in an engineering study completed in December 2014. The study assessed the proposed design criteria for the bridges, rare/threatened/endangered species impacts, archaeological resources, and wetland resources. Several alternatives were considered including no action, minor patching, deck replacements, superstructure replacements, and full replacements. Given the age and condition of the structures, the engineering study recommended deck replacements with minor substructure repairs. The decks will be replaced with precast elements using Accelerated Bridge Construction (ABC) methods. Traffic will be maintained on an offsite detour during evening off-peak hours. The new bridge decks will be comprised of full width precast deck panels and placed in 8-foot length segments. The existing bridges do not meet the minimum standard for width; this project will add one-foot on to each of the shoulders, which is still substandard. Each bridge will have two twelve-foot lanes with a 4-foot shoulder on each side. The existing beams will be cleaned and prepared for painting as a part of this project; the beams will be painted as part of a separate project.

It is anticipated that the bridge will be constructed during the summer of 2018 using ABC methods, which will expedite construction and reduce disturbance to the public. Closures will be limited to night-time, off-peak hours. There will be a total of approximately 12 nighttime closures between exits 16 and 17 for each direction. During the removal and replacement of deck sections over traffic lanes on Bay Road, traffic on Bay road will be reduced to one lane to avoid overhead work. Bay Road would likely be reduced to one lane for 3 nights for work on Bridge 76N and 3 nights for work on Bridge 76S. The detour for this project location would not add any distance to the through route, and would have an end-to-end distance of 13 miles.

Anticipated bridge closure windows:

Northbound: 9^{PM} to 6^{AM} Monday thru Friday, and 8^{PM} to 8^{AM} Saturday and Sunday.

Southbound: 8^{PM} to 5^{AM} Monday thru Friday, and 8^{PM} to 7^{AM} Saturday and Sunday.

Target Construction Schedule: It is anticipated that construction activities will take place beginning in June 2018 and last one construction season. Interstate closures will be limited to off-peak nighttime hours.

Contractor: TBD

Estimated Total Project Cost: TBD

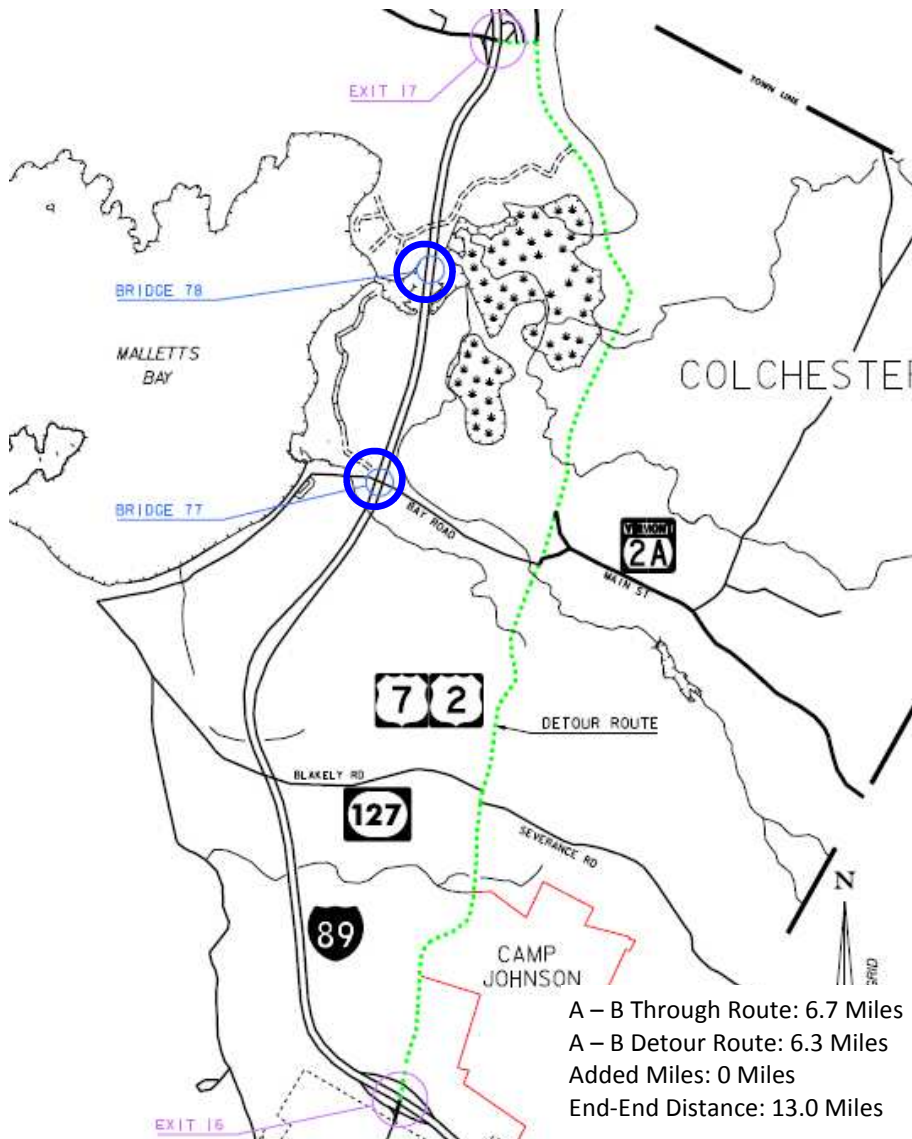
VTrans Project Manager: TBD

VTrans Resident Engineer: Unknown at this time

Detour Route: During construction, traffic will be rerouted on US Route 7 (US Route 2), back to I-89

From the North: Take the US-2 exit, EXIT 17, toward US-7/Lake Champlain Islands/Colchester. Turn left onto US-2 E/Roosevelt Hwy. Turn right onto Roosevelt Hwy/US-7 S/US-2 E. Merge onto I-89 S via the ramp on the left.

From the South: Take the US-2/US-7 exit, EXIT 16, toward Winooski/Colchester. Turn right onto Roosevelt Hwy/US-7 N/US-2 W. Turn left onto Roosevelt Hwy/US-7 N/US-2 W. Merge onto I-89 N toward Georgia/St. Albans/Montreal.



Bridge 76 S



Bridge 76 N



Bridge 77 S deck deterioration



Bridge 77 N



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